

Operating lamp.

Publication number: EP0391287

Publication date: 1990-10-10

Inventor: ENDERS PETER (DE); HARTGE JOERG (DE);
JAECKEL INGO DR (DE); LUGER REINHARD DR (DE);
AMBRUS GEZA (DE)

Applicant: HERAEUS INSTR GMBH (DE)

Classification:




- **international:** **F21S8/00; F21V5/04; F21S8/00; F21V5/00;** (IPC1-7):
F21M1/00; F21V5/04

- **european:** F21S8/00R2M; F21V5/04





Application number: EP19900106228 19900331

Priority number(s): DE19890003955U 19890331; DE19890003957U
19890331

Also published as:

 US5128848 (A1)
 JP3032662 (A)
 EP0391287 (B1)

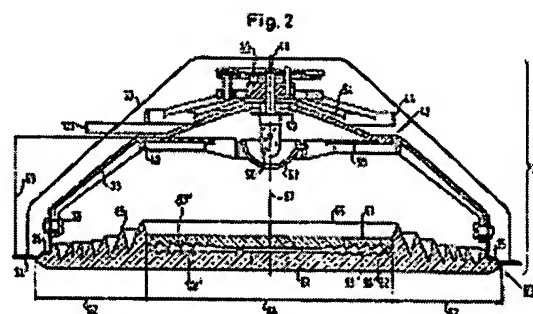
Cited documents:

 GB813721
 US2257881
 GB507638
 FR799964

[Report a data error here](#)

Abstract of EP0391287

An operating lamp (10) having one or more spotlights (25) each with a light source (50) is specified, which is screened in the direction of emission by a counter reflector (52). The light flux is focused by the counter reflector (52) and a reflector (54) onto an optical system (60) which terminates the housing in the direction of emission. In order to guarantee homogeneous illumination even of deep surgical wounds, the optical system (60) is constructed as a Fresnel lens composed of annular prisms (65), which contains a dioptric central region (64) and a catadioptric edge region (62). The edge gradient and the heights of the annular prisms (65) are dimensioned such that the light bundles emerging from the Fresnel lens (60) intersect the optical axis (67) at a distance which is larger the smaller the distance at which the light bundle emerges from the Fresnel lens (60) remote from the optical axis (67).



Data supplied from the **esp@cenet** database - Worldwide